

ABSTRACT OF THE DISCLOSURE

A tension-type shadow mask supporting frame for a color CRT is comprises a pair of main frames having a supporting part for supporting a shadow mask, respectively; and a pair of sub frames combined with the main frames for applying elastic force to the shadow mask; wherein the curvature structure of each one of the supporting parts in the main frames after the elastic force is removed satisfies the equation $\Delta R / R = 0.95 \sim 1.05$, where R is a radius of curvature obtained by connecting a center of and both ends each one of the supporting parts in the main frames, and ΔR is a radius of curvature obtained by connecting three arbitrary positions each one of the supporting parts in the main frames.

Also, in accordance with the present invention, there are some advantages that the function of damper wire can be increased by increasing contact force at peripheral portions of a shadow mask thus to improve howling phenomenon, and in case of manufacturing a main frame mechanically, cost for manufacturing to a single curvature form is less than for manufacturing to the polynomial form.